

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 02/20225

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G06K19/077 G06K7/00 H01R13/64

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06K H01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 22, 9 March 2001 (2001-03-09) -& JP 2001 135384 A (YAMAICHI ELECTRONICS CO LTD;MATSUSHITA ELECTRIC IND CO LTD), 18 May 2001 (2001-05-18) paragraph '0021! - paragraph '0041!; figures 15,19	17,18,22
A	WO 01 43235 A (YAMAICHI ELECTRONICS CO LTD ;ABE KIYOSHI (JP); TORII TAKASHI (JP);) 14 June 2001 (2001-06-14) the whole document -& EP 1 152 492 A (YAMAICHI ELECTRONICS) 7 November 2001 (2001-11-07) paragraph '0041! - paragraph '0047!; figures 1,3  -/--	1-22

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the international search

7 October 2002

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15/10/2002

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 23, 10 February 2001 (2001-02-10) & JP 2001 167232 A (YAMAICHI ELECTRONICS CO LTD;MATSUSHITA ELECTRIC IND CO LTD), 22 June 2001 (2001-06-22) abstract ----	1-22
A	US 6 234 845 B1 (HAKOZAKI HIROTOSHI) 22 May 2001 (2001-05-22) column 6, line 7 -column 7, line 13 ----	1-22
A	US 5 969 331 A (RYCKAERT PAUL ET AL) 19 October 1999 (1999-10-19) column 6, line 25 -column 9, line 12 -----	1-22

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2001135384 A	18-05-2001	NONE	
WO 0143235 A	14-06-2001	JP 2001160458 A EP 1152492 A1 WO 0143235 A1 US 2002137386 A1	12-06-2001 07-11-2001 14-06-2001 26-09-2002
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